

Practitioner's Docket No. MPI02-110P1RNM

U.S.S.N. 10/678,872

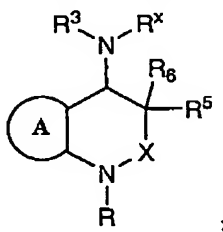
IN THE CLAIMS:

Please cancel claims 1-24, and add new claims 25-44.

**This listing of claims will replace all prior versions, and listings, of claims in the application:**

Claims 1-24. (canceled)

25. (new) A compound represented by the following structural formula:



or a pharmaceutically acceptable salt thereof, wherein:

Ring A is an optionally substituted monocyclic aromatic ring;

R is  $-X_1-R^1$ ;

$R^x$  is  $-X_2-R^4$ , and  $R^3$  is an optionally substituted aromatic group; or

$-NR^xR^3$ , taken together, is an optionally substituted non-aromatic nitrogen containing heterocyclic group;

X is  $-C(O)-$  or  $-C(R^2)_2-$ ;

$X_1$  and  $X_2$  are each independently a bond, S(O), S(O)<sub>2</sub>, C(O) or C(O)NH;

$R^1$  is H or an optionally substituted, cycloaliphatic group, aromatic group or non-aromatic heterocyclic group;

provided that when  $X_1$  is a bond, SO or SO<sub>2</sub>, then  $R^1$  is not H;

each  $R^2$  is independently H,  $-X_4-R^8$  or an optionally substituted, aliphatic group, cycloaliphatic group, aromatic group or non-aromatic heterocyclic group;

$R^4$  is H,  $-X_6-R^{10}$  or an optionally substituted, aliphatic group, cycloaliphatic group, aromatic group or non-aromatic heterocyclic group;

provided that when  $X_2$  is a bond, SO or SO<sub>2</sub>, then  $R^4$  is not H;

$X_4$  and  $X_6$  are each independently a straight or branched hydrocarbyl group optionally substituted with one or more groups selected from the group consisting of halo, -OH, =O, C<sub>1</sub>-C<sub>3</sub> alkoxy, nitro and cyano;

$R^5$  and  $R^6$  are each independently H or C<sub>1</sub>-C<sub>3</sub> alkyl; and

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$R^8$  and  $R^{10}$  are each independently H,  $-C(O)OR'$  or an optionally substituted, cycloaliphatic group, aromatic group or non-aromatic heterocyclic group;

where,

the optional substituents on the aliphatic group, the cycloaliphatic group or the non-aromatic heterocyclic group are one to three groups each independently selected from the group consisting of halo,  $R^{11}$ ,  $=O$ ,  $=S$ ,  $=NNHR^*$ ,  $=NN(R^*)_2$ ,  $=NNHC(O)R^*$ ,  $=NNHCO_2(alkyl)$ ,  $=NNHSO_2(alkyl)$  and  $=NR^*$ ;

the optional substituents on unsaturated carbon atoms of the aromatic group is  $R^{11}$ ;

the optional substituents on a nitrogen atom of the aromatic group or the nitrogen atom of the non-aromatic nitrogen containing heterocyclic group are one to three groups each independently selected from the group consisting of  $R^+$ ,  $-N(R^+)_2$ ,  $-C(O)R^+$ ,  $-CO_2R^+$ ,  $-C(O)C(O)R^+$ ,  $-C(O)CH_2C(O)R^+$ ,  $-SO_2R^+$ ,  $-SO_2N(R^+)_2$ ,  $-C(=S)N(R^+)_2$ ,  $-C(=NH)-N(R^+)_2$  and  $-NR^+SO_2R^+$ ;

$R^{11}$  is one to four substituents each independently selected from the group consisting of halo,  $R^0$ ,  $-OH$ ,  $-OR^0$ ,  $-SH$ ,  $-SR^0$ , 1,2-methylenedioxy, 1,2-ethylenedioxy, protected  $-OH$ , phenyl,  $[R^{12}]$ -phenyl,  $-O(phenyl)$ ,  $-O([R^{12}]-phenyl)$ ,  $-CH_2(phenyl)$ ,  $-CH_2([R^{12}]-phenyl)$ ,  $-CH_2CH_2(phenyl)$ ,  $-CH_2CH_2([R^{12}]-phenyl)$ ,  $-NO_2$ ,  $-CN$ ,  $-N(R')_2$ ,  $-NR'CO_2R^0$ ,  $-NR'C(O)R^0$ ,  $-NR'NR'C(O)R^0$ ,  $-N(R')C(O)N(R')_2$ ,  $-NR'NR'C(O)N(R')_2$ ,  $-NR'NR'CO_2R^0$ ,  $-C(O)C(O)R^0$ ,  $-C(O)CH_2C(O)R'$ ,  $-CO_2R'$ ,  $-C(O)R^0$ ,  $-C(O)N(R')_2$ ,  $-OC(O)N(R')_2$ ,  $-S(O)_2R^0$ ,  $-SO_2N(R')_2$ ,  $-S(O)R'$ ,  $-NR'SO_2N(R')_2$ ,  $-NR'SO_2R^0$ ,  $-C(=S)N(R')_2$ ,  $-(CH_2)_yN(R')_2$ ,  $-C(=NH)-N(R')_2$ ,  $-(CH_2)_yC(O)N(R')_2$ ,  $-(CH_2)_yNHC(O)R'$  or  $-(CH_2)_yNHC(O)CH(V-R')(R')$ ;

$R'$  is H,  $R^0$ ,  $-CO_2R^0$ ,  $-SO_2R^0$  or  $-C(O)R^0$ ;

$y$  is 0-6;

$V$  is  $C_1$ - $C_6$  alkylene;

each  $R^*$  is independently H, an aliphatic group or an aliphatic group substituted with  $R^{12}$ ;

$R^+$  is H, phenyl,  $[R^{12}]$ -phenyl,  $-O(phenyl)$ ,  $-O([R^{12}]-phenyl)$ ,  $-CH_2(phenyl)$ ,  $-CH_2([R^{12}]-phenyl)$ , a heteroaryl group, a non-aromatic heterocyclic group, an aliphatic group or an aliphatic group substituted with  $R^{12}$ ;

$R^0$  is an aliphatic group, a cycloaliphatic group, an aromatic group, an aralkyl group or a non-aromatic heterocyclic group, each group being optionally substituted with  $R^{12}$ ;

$R^{12}$  is one to four substituents each independently selected from the group consisting of halo,  $C_1$ - $C_6$  alkyl, (halo) $C_1$ - $C_6$  alkyl,  $C_3$ - $C_8$  cycloalkyl, (halo) $C_3$ - $C_8$  cycloalkyl,  $-CN$ ,  $-CF_3$ ,  $-CHF_2$ ,  $-CH_2F$ ,  $-OCF_3$ ,  $-OCHF_2$ ,  $-OCH_2F$ ,  $-OR'$ ,  $-OR^{13}C(O)R'$ ,  $-C(O)OR'$ ,  $-C(O)N(R^{16})_2$ ,  $-N(R^{16})_2$ ,  $-NO_2$ ,  $-NR^{16}C(O)R'$ ,  $-NR^{16}C(O)OR'$ ,  $-NR^{16}C(O)N(R^{16})_2$ ,  $-NR^{16}SO_2R^{17}$ ,  $-S(O)_qR^{17}$ ,  $-R^{13}NR^{16}C(O)R'$ ,  $-R^{13}C(O)R'$ ,  $-R^{13}NR^{16}C(O)OR'$ , tetrazolyl, imidazolyl or oxadiazolyl;

$R^{13}$  is  $C_1$ - $C_6$  alkyl or  $C_3$ - $C_8$  cycloalkyl;

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each R<sup>16</sup> is independently R' or benzyl;

R<sup>17</sup> is R<sup>13</sup> or -CF<sub>3</sub>;

q is 0-2; and

r is 1-3;

provided that the compound is not 2-methyl-N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(2-methyl-1-oxobutyl)-4-quinolinyl]-butamide; N-(1-Acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-N-phenyl-heptamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(1-oxo-3-phenylpropyl)-4-quinolinyl]-benzenepropanamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(3-nitrobenzoyl)-4-quinolinyl]-hexanamide; N-[1,1'-biphenyl]-3-yl-N-[1,2,3,4-tetrahydro-1-(4-methoxybenzoyl)-2-methyl-4-quinolinyl]-acetamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-N-(4-nitrophenyl)-heptanamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-N-(4-methoxyphenyl)-2-methyl-propanamide; N-[1-(4-fluorobenzoyl)-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl]-N-phenyl-butanamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(3-methoxybenzoyl)-2-methyl-4-quinolinyl]-pentanamide; 2-ethyl-N-[1-(2-ethyl-1-oxobutyl)-1,2,3,4-tetrahydro-2,8-dimethyl-4-quinolinyl]-N-(2-methylphenyl)-butanamide; N-[1-[(4-fluorophenyl)acetyl]-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl]-N-phenyl-propanamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(4-nitrobenzoyl)-4-quinolinyl]-octanamide; N-cyclohexyl-4-[(cyclohexylamino)carbonyl]phenylamino]-3,4-dihydro-2-methyl-1(2H)-quinolinecarboxamide; N-[1-(4-ethylbenzoyl)-1,2,3,4-tetrahydro-2,8-dimethyl-4-quinolinyl]-N-(2-methylphenyl)-3-(4-nitrophenyl)-2-propenamide; 3-(4-methoxyphenyl)-N-phenyl-N-[1,2,3,4-tetrahydro-1-[3-(4-methoxyphenyl)-1-oxo-2-propenyl]-2-methyl-4-quinolinyl]-2-propenamide; 4-[(ethoxyoxoacetyl)phenylamino]-3,4-dihydro-2-methyl-5-oxo-ethyl ester-1(2H)-quinolineacetic acid; N-[1-(3-cyclohexyl-1-oxopropyl)-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl]-N-phenyl-cyclohexanepropanamide; 4-(acetylphenylamino)-3,4-dihydro-2-methyl-gamma-oxo-1(2H)-quinolinepentanoic acid; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-2,2-dimethyl-N-phenyl-propanamide; N-(1-benzoyl-6-bromo-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-N-phenyl-pentanamide; N-[1-(2-furanylcarbonyl)-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl]-N-phenyl-acetamide; 2-methyl-N-phenyl-N-[1,2,3,4-tetrahydro-1-(3-methoxybenzoyl)-2-methyl-4-quinolinyl]-propanamide; N-[1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl]-N-phenyl-acetamide; 2,2,2-trifluoro-N-phenyl-N-[1,2,3,4-tetrahydro-1-(3-methoxybenzoyl)-2-methyl-4-quinolinyl]-acetamide; 2-ethyl-N-[1-(2-ethyl-1-oxobutyl)-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl]-N-phenyl-butanamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-N-(3-methoxyphenyl)-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(1-oxohexyl)-4-quinolinyl]-acetamide; N-(1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinolinyl)-N-phenyl-2-thiophenecarboxamide; N-[1-(2-fluorobenzoyl)-1,2,3,4-

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tetrahydro-2-methyl-4-quinoliny]-N-phenyl- hexanamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(4-methoxybenzoyl)-2-methyl-4-quinoliny]- hexanamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(4-methoxybenzoyl)-2-methyl-4-quinoliny]- hexanamide; N-[1-(cyclopropylcarbonyl)-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl- cyclopropanecarboxamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-(4-methylphenyl)- acetamide; 2-methyl-N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(2-methyl-1-oxopropyl)-4-quinoliny]- propanamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(4-methoxybenzoyl)-2-methyl-4-quinoliny]- 2-thiophenecarboxamide; 1-(3,5-dinitrobenzoyl)-N-formyl-1,2,3,4-tetrahydro-2-methyl-N-phenyl-4-quinolinamine; N-[1-(4-chloro-3-nitrobenzoyl)-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl- acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(3-nitrobenzoyl)-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(3-methoxybenzoyl)-2-methyl-4-quinoliny]- hexanamide; N-[1-(2-furanylcarbonyl)-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-2-furancarboxamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(1-oxopropyl)-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-[3-(4-methoxyphenyl)-1-oxo-2-propenyl]-2-methyl-4-quinoliny]-acetamide; 3-(2-furanyl)-N-[1-[3-(2-furanyl)-1-oxo-2-propenyl]-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-2-propenamide; N-[1-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxo-3-phenylpropyl]-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-octanamide; N-[1-(3-chlorobenzoyl)-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-acetamide; Relative stereochemistry N-phenyl-N-[(2R,4S)-1,2,3,4-tetrahydro-2-methyl-1-(1-oxopropyl)-4-quinoliny]- acetamide; Relative stereochemistry N-[(2R,4S)-1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-2-methyl-N-phenyl-propanamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-hexanamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-propanamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-heptanamide; Relative stereochemistry N-[(2R,4S)-1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-2,2-dimethyl-N-phenyl-propanamide; N-[1-(3-fluorobenzoyl)-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-acetamide; N-[1-[4-(1,1-dimethylethyl)benzoyl]-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl- acetamide; N-(1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-2-methyl-N-phenyl-propanamide; 2,2,2-trifluoro-N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(trifluoroacetyl)-4-quinoliny]- acetamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-2,2-dimethyl-N-phenyl-propanamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-butanamide; Relative stereochemistry N-[(2R,4S)-1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-acetamide; Relative stereochemistry N-phenyl-N-[(2R,4S)-1,2,3,4-tetrahydro-2-methyl-1-(1-oxoheptyl)-4-quinoliny]-acetamide; Relative stereochemistry N-phenyl-N-[(2R,4S)-1,2,3,4-tetrahydro-2-methyl-1-(1-

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oxohexyl)-4-quinoliny]-acetamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-pentanamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(1-oxo-3-phenyl-2-propenyl)-4-quinoliny]-acetamide; Relative stereochemistry N-[(2R,4S)-1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-heptanamide; Relative stereochemistry N-[(2R,4S)-1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-acetamide; Relative stereochemistry N-[(2R,4S)-1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-pentanamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(tricyclo[3.3.1.1<sup>3,7</sup>]dec-1-ylcarbonyl)-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(1-oxopropyl)-4-quinoliny]-propanamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(2-thienylcarbonyl)-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(4-methoxybenzoyl)-2-methyl-4-quinoliny]-2-furancarboxamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(4-methoxybenzoyl)-2-methyl-4-quinoliny]-acetamide; N-[1-(3,5-dinitrobenzoyl)-1,2,3,4-tetrahydro-2-methyl-4-quinoliny]-N-phenyl-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(4-nitrobenzoyl)-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(2-iodobenzoyl)-2-methyl-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(2-methyl-1-oxopropyl)-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-[(4-methylphenyl)sulfonyl]-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-[(4-nitrophenyl)methyl]-4-quinoliny]-acetamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(3-methoxybenzoyl)-2-methyl-4-quinoliny]-acetamide; N-(1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-butanamide; N-phenyl-N-[1,2,3,4-tetrahydro-2-methyl-1-(1-oxobutyl)-4-quinoliny]-acetamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-hexanamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-pentanamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-propanamide; 1-benzoyl-1,2,3,4-tetrahydro-4-(N-phenylacetamido)quinaldine; N-(1-acetyl-6-bromo-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-acetamide; N-(1-acetyl-1,2,3,4-tetrahydro-2-methyl-6-nitro-4-quinolyl)-acetanilide; N-(1-acetyl-6-chloro-1,2,3,4-tetrahydro-2-methyl-4-quinolyl)-acetanilide; N-(1-acetyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-acetamide; N-(1-benzoyl-6-bromo-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-acetamide; N-(1-benzoyl-6-chloro-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-acetamide; N-(1-benzoyl-1,2,3,4-tetrahydro-2-methyl-4-quinoliny)-N-phenyl-butanamide; N-phenyl-N-[1,2,3,4-tetrahydro-1-(3-fluorobenzoyl)-2-methyl-4-quinoliny]-hexanamide; N-[1-(3-chloro-benzoyl)-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl]-N-phenyl-acetamide; N-[1-(4-fluoro-benzoyl)-2-methyl-6-nitro-1,2,3,4-tetrahydro-quinolin-4-yl]-N-phenyl-acetamide; pentanoic acid (1-benzoyl-6-bromo-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl)-phenyl-amide; N-(1-benzoyl-6-chloro-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl)-N-phenyl-acetamide; N-[6-chloro-1-(4-fluoro-benzoyl)-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl]-N-phenyl-

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acetamide; N-[6-bromo-1-(4-fluoro-benzoyl)-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl]-N-phenyl-acetamide; N-(1-benzoyl-6-nitro-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl)-N-phenyl-acetamide; N-(1-benzoyl-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl)-N-phenyl-butylamide; or N-[1-(3-methoxy-benzoyl)-2-methyl-1,2,3,4-tetrahydro-quinolin-4-yl]-2,2-dimethyl-N-phenyl-propionamide.

26. (new) The compound of Claim 25 wherein:

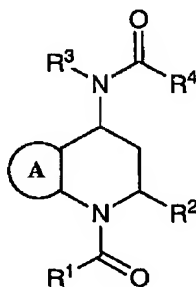
X is  $-\text{CHR}^2-$ ;

$\text{R}^2$  is H, methyl or ethyl;

$\text{R}^3$  is an optionally substituted aromatic group; and

$\text{R}^5$  and  $\text{R}^6$  are each H.

27. (new) The compound of Claim 26 wherein the compound is represented by the following structural formula:



28. (new) The compound of Claim 27 wherein  $\text{R}^1$  is optionally substituted phenyl.
29. (new) The compound of claim 27, wherein  $\text{R}^4$  is methyl, ethyl, propyl, *iso*-propyl, *n*-butyl, *sec*-butyl, *tert*-butyl,  $-\text{CH}_2\text{OCH}_3$  or  $-\text{CH}_2\text{OCH}_2\text{CH}_3$ .
30. (new) The compound of claim 29 wherein:  
 $\text{R}^3$  is  $[\text{R}^{11}]$ -phenyl, where  $\text{R}^{11}$  is Br, Cl,  $-\text{CH}_3$ ,  $-\text{N}(\text{R}')_2$ ,  $-\text{NHC}(\text{O})\text{OR}'$ ,  $-\text{S}(\text{O})_2\text{CH}_3$ ,  $-\text{S}(\text{O})_2\text{N}(\text{R}')_2$  or  $-(\text{CH}_2)_y\text{C}(\text{O})\text{N}(\text{R}')_2$ ; and  
 $\text{R}^4$  is methyl, ethyl or  $-\text{CH}_2\text{OCH}_3$ .
31. (new) The compound of Claim 30 wherein  $\text{R}^{11}$  is one substituent at the para position.
32. (new) The compound of Claim 27 wherein:

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$R^1$  is H or an optionally substituted, cycloalkyl group, aromatic group or non-aromatic heterocyclic group;

$R^3$  is phenyl or  $[R^{11}]$ -phenyl;

$R^4$  is H,  $-\text{CH}_2\text{C}(\text{O})R^{14}$ ,  $-\text{CH}_2R^{15}$ ,  $-\text{CH}_2\text{OR}^{14}$  or an optionally substituted,  $\text{C}_1$ - $\text{C}_3$  alkyl group, cycloalkyl group, aromatic group or non-aromatic heterocyclic group;

$R^{14}$  is H or an optionally substituted, alkyl group, aromatic group, cycloalkyl group or non-aromatic heterocyclic group; and

$R^{15}$  is an optionally substituted, aromatic group, cycloalkyl group or non-aromatic heterocyclic group.

33. (new) The compound of Claim 27 wherein:

Ring A is phenyl or  $[R^{11}]$ -phenyl, where  $R^{11}$  is at the five, six, seven and/or eight position;

$R^1$  is  $R^{18}$ ;

$R^4$  is  $R^{18}$ ,  $\text{C}_1$ - $\text{C}_4$  alkyl,  $-\text{CH}_2\text{OH}$ ,  $-\text{CH}_2\text{OCH}_3$ ,  $-\text{CH}_2\text{OCH}_2\text{CH}_3$ ,  $-\text{CH}_2\text{CH}_2\text{OCH}_3$  or  $-\text{CH}_2\text{CH}_2\text{OCH}_2\text{CH}_3$ ; and

$R^{18}$  is an optionally substituted, phenyl, pyridyl, furanyl, thiophenyl, isoxazolyl, imidazolyl, pyrazolyl, pyrrolyl, benzofuranyl, tetrazolyl, thiazolyl, benzyl, benzothiazolyl, benzoimidazolyl, benzotriazolyl, benzomorpholinyl, benzopyrazolyl, indolyl,  $-\text{CH}_2$ -(*N*-pyridyl),  $-\text{CH}_2$ -furanyl,  $-\text{CH}_2$ -thiophenyl,  $-\text{CH}_2$ -isoxazolyl,  $-\text{CH}_2$ -imidazolyl,  $-\text{CH}_2$ -pyrazolyl,  $-\text{CH}_2$ -pyrrolyl,  $-\text{CH}_2$ -benzofuranyl,  $-\text{CH}_2$ -tetrazolyl,  $-\text{CH}_2$ -thiazolyl,  $-\text{CH}_2$ -tetrazolyl,  $-\text{CH}_2$ -benzothiazolyl,  $-\text{CH}_2$ -benzimidazolyl,  $-\text{CH}_2$ -O-phenyl,  $-\text{CH}_2\text{C}(\text{O})$ -phenyl, naphthalimidyl, tetrahydrofuranyl, cyclohexyl, cyclopentyl or cyclopropyl group.

34. (new) The compound of Claim 33 wherein:

Ring A is phenyl or  $[R^{11}]$ -phenyl, where  $R^{11}$  is at the six and/or seven position;

$R^1$  is phenyl, thiophenyl, furanyl, pyridyl, pyrrolidinyl, oxazolyl, isoxazolyl, benzotriazolyl or benzomorpholinyl, each group being optionally substituted with  $R^{11}$ ;

$R^3$  is  $[R^{11}]$ -phenyl; and

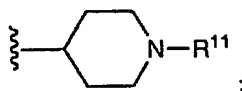
$R^4$  is methyl, ethyl, propyl, *iso*-propyl, *n*-butyl, *sec*-butyl, *tert*-butyl,  $-\text{CH}_2\text{OCH}_3$  or  $-\text{CH}_2\text{OCH}_2\text{CH}_3$ .

35. (new) The compound of Claim 27 wherein:

$R^1$  is thiophenyl,  $[R^{11}]$ -thiophenyl, isoxazolyl,  $[R^{11}]$ -isoxazolyl, pyridinyl,  $[R^{11}]$ -pyridinyl, benzotriazolyl,  $[R^{11}]$ -benzotriazolyl, benzomorpholinyl or  $[R^{11}]$ -benzomorpholinyl or  $R^1$  is phenyl or  $[R^{11}]$ -phenyl, where  $R^{11}$  is halo,  $-\text{OR}^o$ ,  $-\text{N}(\text{R}')_2$ , oxazolyl or

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$R^3$  is  $[R^{11}]$ -phenyl, where  $R^{11}$  is Br, Cl,  $-CH_3$ ,  $-N(R')_2$ ,  $-NHC(O)OR'$ ,  $-S(O)_2CH_3$ ,  $-S(O)_2N(R')_2$  or  $-(CH_2)_yC(O)N(R')_2$ ; and  
 $R^4$  is methyl, ethyl or  $-CH_2OCH_3$ .

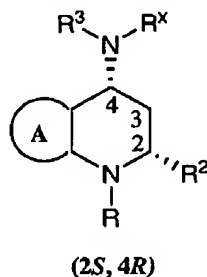
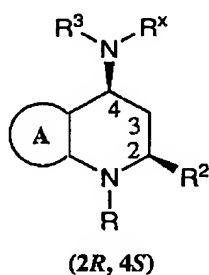
36. (new) The compound of Claim 35 wherein  $R^3$  is  $[R^{11}]$ -phenyl, where  $R^{11}$  is one substituent at the para position.

37. (new) The compound of Claim 25 wherein:

X is  $-CHR^2$ ; and

$R^2$  and  $NR^xR^3$  are in a *cis* configuration relative to one another.

38. (new) The compound of Claim 37 where the *cis* configuration is 2*S*,4*R* or 2*R*,4*S*:



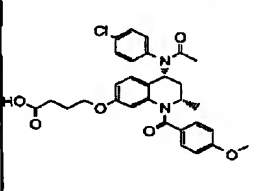
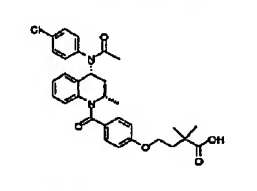
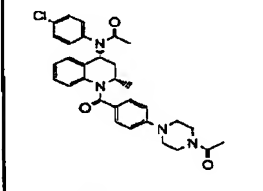
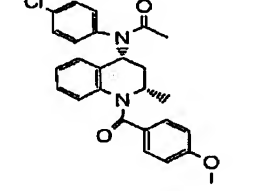
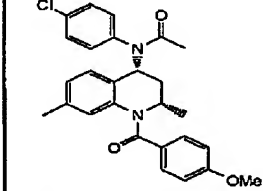
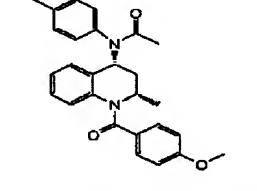
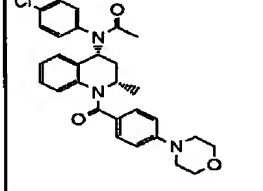
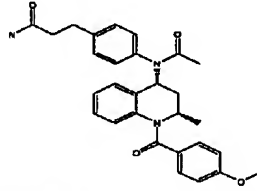
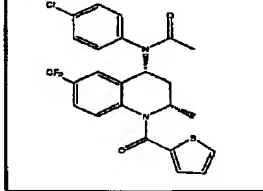
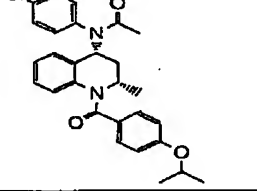
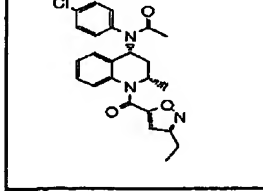
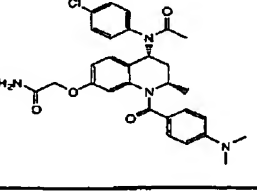
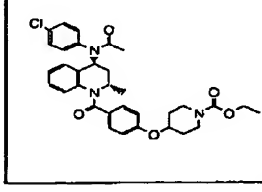
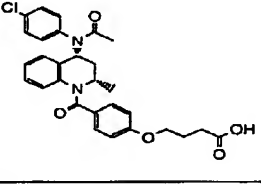
39. (new) The compound of claim 25 which is represented by a structural formula selected from the group consisting of:





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Structure	Structure
	
	
	
	
	
	
	

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Structure	Structure

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Structure	Structure

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Structure	Structure

or a pharmaceutically acceptable salt thereof.

40. (new) The compound of claim 25 wherein:

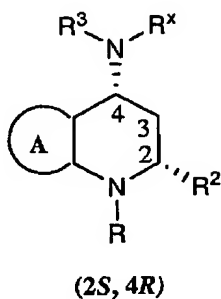
X is  $-\text{CHR}^2$ ; and

$\text{R}^2$  and  $\text{NR}^*\text{R}^3$  are in a *cis* configuration relative to one another, wherein the *cis* configuration is

2S,4R:

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41. (new) The compound of Claim 40 wherein:  
 R is  $-C(O)R^1$ , wherein  $R^1$  is optionally substituted phenyl;  
 $R^2$  is H, methyl, or ethyl;  
 $R^3$  is phenyl or  $[R^{11}]$ -phenyl;  
 $R^x$  is  $-C(O)R^4$ ; wherein  $R^4$  is methyl, ethyl, propyl, *iso*-propyl, *n*-butyl, *sec*-butyl, *tert*-butyl,  $-CH_2OCH_3$  or  $-CH_2OCH_2CH_3$ ; and  
 Ring A is phenyl or  $[R^{11}]$ -phenyl, where  $R^{11}$  is at the six and/or seven position.
42. (new) The compound of claim 40 wherein:  
 $R^3$  is  $[R^{11}]$ -phenyl, where  $R^{11}$  is Br, Cl,  $-CH_3$ ,  $-N(R')_2$ ,  $-NHC(O)OR'$ ,  $-S(O)_2CH_3$ ,  $-S(O)_2N(R')_2$  or  $-(CH_2)_yC(O)N(R')_2$ ; and  
 $R^4$  is methyl, ethyl or  $-CH_2OCH_3$ .
43. (new) The compound of Claim 42 wherein  $R^{11}$  is one substituent at the para position.
44. (new) A pharmaceutical composition comprising the compound of Claim 25 and a pharmaceutically acceptable diluent, excipient or carrier.